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Application No.	Applicant(s)
10/615,777	HIDAKA, HIDETO
Examiner	Art Unit
ANH PHUNG	2824
Feb. 28, 2005.	
aminer.	
der 35 U.S.C. § 119(a)-(d) or (f).  been received.  been received in Application No  cuments have been received in this  of this communication to file a reply ENT of this application.  Ited. Note the attached EXAMINER is reason(s) why the oath or declarate to be submitted.  on's Patent Drawing Review (PTO-  Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL in FOR THE DEPOSIT OF BIOLOGICAL  The property of the comment of the desire of the deposit of the property of the prop	national stage application from the complying with the requirements.  'S AMENDMENT or NOTICE OF stion is deficient.  948) attached  Office action of the back) of d).  must be submitted. Note the
6. ☐ Interview Summary Paper No./Mail Dat B), 7. ☐ Examiner's Amendr	te ment/Comment ent of Reasons for Allowance
	Examiner  ANH PHUNG  ANH PHUNG  Ars on the cover sheet with the coor of the appropriate communication is subject to and MPEP 1308.  This application is subject to and MPEP 1308.  The color of the cover sheet with the coordinate communication is subject to and MPEP 1308.  The color of the cover sheet with the coordinate communication is subject to and MPEP 1308.  The color of the

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

**Notice of Allowability** 

Part of Paper No./Mail Date 20050620

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#### **Detailed Action**

1. In response to the Request for Continued Examination (RCE) received on February 28, 2005, claims **1-18** are pending in the application.

## **Priority**

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### Information Disclosure Statement

This office acknowledges receipt of the following items from the Applicant:
 Information Disclosure Statement (IDS) filed on October 20, 2003 and February
 28, 2005. Information disclosed and listed on PTO 1449(s) was considered.

# Examiner's Statement of Reasons for Allowance

4. Claims **1-18** are allowed.

Ooishi (US 6,714,443), Nahas (US 6,714,442), Gogl et al. (US 6,577,528), Swanson et al. (US 6,493,259) and Perner et al. (US 6,256,224) disclose a magnetic memory device having bit line drive circuits similar to that of the present application, but fail to teach:

"a plurality of bit line drive circuits disposed corresponding to the bit lines and supplying currents according to write data to a corresponding bit line, each bit line drive circuit including; a first drive circuit for supplying a first current to a corresponding bit line in accordance with write data to an adjacent column when the adjacent column is selected; and a second drive circuit for supplying a second current to the corresponding

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bit line in accordance with the write data to the corresponding column when the corresponding column is selected" as claimed in the independent claim 1; or

"a column selecting circuit for selecting a predetermined number of memory cell columns in parallel from the columns of said plurality of magnetic memory cell in accordance with an address signal, said any adjacent columns in said predetermined number of memory cell columns sandwiching at least one bit line; and a plurality of bit line drive circuits disposed corresponding to the bit lines and supplying a current to a corresponding bit line in accordance with write data and a column selection signal from said column selecting circuit" as claimed in the independent claim 9; or

"bit line drive circuitry for supplying current according to write data to a corresponding bit line **coupling** to a memory cell having said write data written thereinto, said bit line drive circuitry including; a first drive circuit for supplying a first current to the corresponding bit line in accordance with write data to an adjacent column when the adjacent column is selected; and a second drive circuit for supplying a second current to the corresponding bit line in accordance with the write data to a corresponding column when the corresponding column is selected" as claimed in the independent claim **12**.

Any comments considered necessary by applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comment on Statement of Reasons for Allowance".

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#### Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANH PHUNG whose telephone number is (571) 272-**1883**. The examiner can normally be reached on Monday-Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD ELMS, can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is (703) **872-9306**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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